

Febrero, Joaquín.

Lluvias en Cataluña durante el verano y el otoño de 1924 y el año meteorológico 1923-1924. Barcelona. 1926. 27 p. maps. 21 $\frac{1}{2}$ cm. (Serv. met. de Cataluña. Notas de estudio. No. 32.)

Fontseré, E.

Sur la reduction de la pression barométrique observée sur les hauts plateaux. (Barcelone. 1926.) 4 p. plates. 28 cm. [Manifolded.]

Gregg, W[ill]is R.

Meteorological conditions along airways. Washington. 1926. 16 p. figs. 29 cm. (Nat. adv. comm. aeron., Report no. 245.)

Howlett, Freeman S.

Frost injury to the apple. p. 104-109. illus. 23 cm. (Ohio agr. exper. sta., Bimonth. bull. v. 11, no. 3, May-June 1926.)

International commission on solar radiation.

Procès verbaux de la conférence de la Commission internationale de radiation solaire à Davos 31/8-2/9 1925. [Stockholm. 1926.] 22 p. 25 cm.

Jansky, C. M., jr.

Statistical study of conditions affecting the distance range of radio telephone broadcasting stations. Washington. 1925. p. 641-650. figs. 25 $\frac{1}{2}$ cm. (U. S. Bur. Stand., Tech. papers, no. 297.)

Koenig, M[axime].

Précis de cyclonomie pratique. n. p. n. d. 34 p. plates (part fold.) 24 cm.

Lemberg, Observ. tech. Hochschule.

Resultate der im Jahre 1925 an dem Observatorium der technischen Hochschule . . . angestellten meteorologischen Beobachtungen. Mit Anhang: Die Tätigkeit der Erdbebenstation Lemberg im J. 1925. Lemberg. n. d. 8 p. 26 $\frac{1}{2}$ cm.

McDonald, W. F.

Study of weather influences on sugar cane production in Louisiana. 38 p. figs. 23 cm. (Repr.: Planter & sugar man, May 29, 1926-July 17, 1926, inclusive.)

Martonne, Emm[anuel] de.

Traité de géographie physique . . . Ed. 4. Paris. 1925-26. v. 1. Notions générales, climat, hydrographie. xi, 496 p. illus. plates (part fold.) 25 $\frac{1}{2}$ cm. v. 2. Le Relief du sol. p. 497-1057. illus. plates. 26 cm.

National fire protection association.

Suggestions of the National board of fire underwriters for protection against lightning as recommended by the National fire protection association. n. p. n. d. 31 p. illus. 13 $\frac{1}{2}$ cm.

National fire protection association. Committee on protection against lightning.

Safety code for the protection of life and property against lightning. Edition of 1925. Boston. n. d. 30 p. 23 cm.

Niblack, A. P.

Further summary of data on uniformity in storm warning signals. Monaco. 1926. 28 p. 27 $\frac{1}{2}$ cm. (Internat. hydrog. bur. Special pub. no. 8a, July, 1926.)

Ono, Suminosuke.

On orographic precipitation. p. 355-375. figs. 26 cm. (Repr. from Nagaoka anniv. vol.)

Opokow, E., & Komarnitzky, S.

Die klimatischen u. hydrologischen Verhältnisse des Flussgebietes der Desna in dem Zeitraum von 1884-1922. Ukrmet. 1926. 71 p. fig. plate. 27 cm. (Ukrainischer met Dienst Bd. 1, Lief. 2. Material zur geophys. Charakteristik der Ukraine.) [Text in Ukrainian, résumé in German.]

Simpson, G. C.

Scott's polar journey and the weather, being the Halley lecture delivered on 17 May, 1923. Oxford. 1926. 31 p. figs. 23 cm.

Sinaloa. Sección de fomento.

Normales correspondientes a 17 años de observaciones efectuadas en el observatorio meteorológico de Culiacán. Años 1903-4-5-6-7-8-9-10-11-12-13-20-21-22-23-24-25. Culiacán. 1926. 1 sheet. 27 $\frac{1}{2}$ cm.

Uruguay. Instituto meteorológico nacional.

Datos del Observatorio central de Montevideo . . . Años 1906 a 1924. n. p. n. d. 48 p. 31 $\frac{1}{2}$ cm.

Ward, Robert DeC.

Present status of long-range weather forecasting. 14 p. 24 $\frac{1}{2}$ cm. (Repr.: Proc. Amer. phil. soc., v. 65, no. 1, 1926.)

Wigand, A.

Die Messung der Sicht mit dem Sichtmesser. p. 411-416. illus. 27 cm. (Sonderab.: Zeitschr. f. Instrumentenk. 45. Jahrg. H. 9, 1925.)

Zistler, Peregrin.

Die Temperaturverhältnisse der Türkei. Der Scirocco. Leipzig. 1926. 181 p. figs. plates. 23 $\frac{1}{2}$ cm. (Zum Klima der Türkei. H. 2.)

RECENT PAPERS BEARING ON METEOROLOGY

The following titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Annalen der Hydrographie und maritimen Meteorologie. Berlin. 54. Jahrgang. Juni 1926.

Benkendorff, Rudolf. Drahtlose Übertragung der Wetterkarte nach dem System Karolus-Telefunken. p. 246.

Benkendorff, Rudolf. Über eine einheitliche Organisation des drahtlosen Wettermeldedienstes vom Nordatlantischen Ozean. p. 236-238.

France. Académie des sciences. Comptes rendus. Paris. t. 183. 12 juillet 1926.

Baldit, Albert. Sur les périodes de constance de la température dans une station de moyenne altitude. p. 139-141.

Franklin institute. Journal. Philadelphia. v. 202. August, 1926.

Humphreys, W. J. Note on ribbon lightning. p. 205-206.

Időjárás. Budapest. v. 30. Március-aprilis 1926.

Hille, Alfréd. Hevenessy Gábor meteorologiája. p. 37-39.

Fraunhofer, Lajos. Rendkívüli hőmérsékleti anomáliák az idei márciusban Budapesten. p. 36-37.

Rona, Zsigmond. Az aerologikai jutatások jelentőségéről. p. 33-36.

Journal of geophysics and meteorology. Moscow. v. 3. no. 1-2. 1926.

Izvekov, B. I. Works of A. A. Friedmann in the domain of geophysics. p. 5-18. [Russian with English title.]

Kalitin, N. N. Relating to the study of spectral skylight polarization. p. 61-78. [Russian with English abstract.]

Moltchanov, P. A. The height of clouds in different points of U. S. S. R. p. 93-98. [Russian with English abstract.]

Tikhomirova, V. N. The aspiratory electric thermometer with thermopiles for measuring air temperatures in layers adjacent to the earth's surface. p. 79-84. [Russian with English abstract.]

Tolsky, A. P. Über die Vergleichbarkeit der Niederschlagsbeobachtungen. p. 43-60. [Russian with German abstract.]

Troubiatchinsky, N. N. The secular variation of geomagnetic elements in Turkestan and the Transcaucasian region within the epoch 1906-09-24. p. 85-91. [Russian with English abstract.]

Wassiljew, K. N. Über die Anwendbarkeit der Kontinuitätsgleichungen zur Bestimmung der vertikalen Strömungen in der freien Atmosphäre. p. 99-107. [Russian with German abstract.]

Weinberg, B. P. Application of the theory of surfaces to the problems of finding isopoints and of tracing isolines. p. 19-42. [Russian with English abstract.]

Nature. London. v. 118. 1926.

Brooks, C. E. P. Climatic changes during geological times. p. 15-17. (July 3.) p. 53-55. (July 10.)

Malzev, V. Luminous night clouds. p. 14. (July 3.)

Giao, Antonio. Cirrus at a lower level than alto-cumulus. p. 49. (July 10.)

Simpson, G. C. Ice domes and the atmosphere. p. 111-112. (July 24.) [Criticism of work by W. H. Hobbs.]

Naturwissenschaften. Berlin. 14. Jahrgang. 2. Juli 1926.

Störmer, Carl. Nordlichtphotographien vom südlichen Norwegien zur Bestimmung der Höhe und Lage des Nordlichtes. p. 631-634.

Russia. Central Bureau for hydrometeorology. Nachrichten. Leningrad. H. 6. 1926.

Kaminsky, A. Weitere Bemerkungen über den Quadranten der grössten Häufigkeit des Windes. Zur Abhanglung von Eugenie Rubinstein. p. 296-300. [Abstract.]

Kaminsky, A. Zur Frage über den Einfluss des Niederschlags auf die Niveauschwankungen des Kaspischen Meeres. p. 245-246. [Abstract.]

Rubinstein, Eugenie. In welcher Entfernung von der Uferlinie an der Meeresküste sollen meteorologische Beobachtungen angestellt werden? p. 108-112. [Abstract.]

Rubinstein, Eugenie. Zur Methodik der klimatologischen Bearbeitung der Windbeobachtungen. p. 269-289. [Abstract.]

Wiese, W. Beitrag zur Kenntnis der Bewegungen des Eises im Weissen Meer. p. 132-134. [Abstract.]

Science. New York. v. 64. 1926.

"Silver nights" in Scandinavia. suppl. p. xii. (July 23.) [Noctilucent clouds predicted.]

Forbes, Stephen A. Aerial music in Yellowstone Park. p. 112-120. (July 30.)

SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING AUGUST, 1926

By HERBERT H. KIMBALL, Solar Radiation Investigations

For a description of instruments and exposures and an account of the method of obtaining and reducing the measurements, the reader is referred to the REVIEW for January, 1924, 52 : 42, January, 1925, 53 : 29, and July, 1925, 53 : 318.

From Table 1 it is seen that solar radiation intensities averaged slightly below the normal for August at Madison, Wis., and close to normal at Washington, D. C., and Lincoln, Nebr.

Table 2 shows a pronounced deficiency in the amount of radiation received on a horizontal surface from the sun and sky at Washington and Madison and a slight excess at Lincoln.

Skylight-polarization measurements made on four days at Washington give a mean of 54 per cent, with a maximum of 58 per cent on the 26th. Measurements made on six days at Madison give a mean of 55 per cent, with a maximum of 64 per cent on the 14th. These are below the corresponding average values for August at both stations.

TABLE 1.—Solar radiation intensities during August, 1926

[Gram-calories per minute per square centimeter of normal surface]

WASHINGTON, D. C.

Date	Sun's zenith distance										Local mean solar time
	8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
	75th mer. time	Air mass					P. M.				
e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.	
Aug. 3	mm. 20.57	cal. 0.53	cal. 0.65	cal. 0.76	cal. 0.95	cal. 1.19	cal. 1.41	cal. 1.06	cal. 0.74	cal. 0.61	mm. 18.59
9	11.38				1.03	1.21					12.68
26	12.68				1.41	1.06	0.74	0.61			9.47
27	13.61				0.76						15.11
28	14.60				0.88	1.23	0.98				10.21
30	15.11					0.98					10.21
31	10.97				0.69	0.86	1.02	1.28			9.47
Means	(0.53)	(0.67)	(0.81)	0.93	1.26	1.01	(0.74)	(0.61)			
Departures	-0.13	-0.01	+0.04	± 0.00	+0.04	± 0.00	-0.13	-0.12			

*Extrapolated..

TABLE 1.—Solar radiation intensities during August, 1926—Con. MADISON, WIS.

Date	Sun's zenith distance										Local mean solar time
	8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
	75th mer. time	Air mass					P. M.				
e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.	
Aug. 6	mm. 14.60	cal. 0.48	cal. 0.66	cal. 0.90			cal. 1.11				mm. 10.59
14	12.24										13.13
21	12.24				0.94	1.05	1.37				13.13
24	10.97				0.82						11.38
25	10.59				1.00						10.97
27	13.61				0.79	1.00					13.61
28	14.10				0.88	1.05					15.11
30	8.48				0.96	1.13					8.48
31	9.47					0.96					9.47
Means						0.90	1.04	1.23			
Departures						-0.04	-0.06	-0.08			

LINCOLN, NEBR.

Aug. 2	12.68							0.89	0.76	0.65	13.13
7	10.59							0.48	0.66	0.90	9.14
9	15.11							1.25	1.01	0.74	15.11
17	15.11							1.27	0.96	0.72	15.85
20	13.61	0.76	0.79	0.97	1.16	1.33	1.16	0.99	0.90	0.76	14.10
23	14.60							1.18	0.97	0.87	0.71
24	10.97							1.39	1.09	0.87	8.48
25	10.21				0.86	1.01	1.19	1.39			11.38
26	12.24							1.30	1.05	0.87	0.72
27	11.38				0.95	1.07	1.21	1.41	1.17	0.97	0.84
28	15.11				0.89	0.99	1.08	1.30			0.72
Means		(0.76)	0.79	0.93	1.11	1.33	1.06	0.86	0.74	0.65	
Departures		+0.11	+0.02	+0.03	+0.03	+0.04	-0.01	-0.03	-0.01	-0.04	

TABLE 2.—Solar and sky radiation received on a horizontal surface
[Gram-calories per square centimeter of horizontal surface]

Week beginning	Average daily radiation						Average daily departure from normal
	Washington	Madison	Lincoln	Chicago	New York	Washington	
	1926	cal.	cal.	cal.	cal.	cal.	
July 30	391	300	565	242	313	-68	-170 +31
Aug. 6	446	365	500	323	340	-4	-90 -16
13	228	459	490	298	241	-207	+18 -4
20	195	418	554	329	191	-224	-7 +72
27	491	437	416	311	344	+86	+34 +637
Excess or deficiency since first of year on Sept. 2						-2,072	+1,883 +637